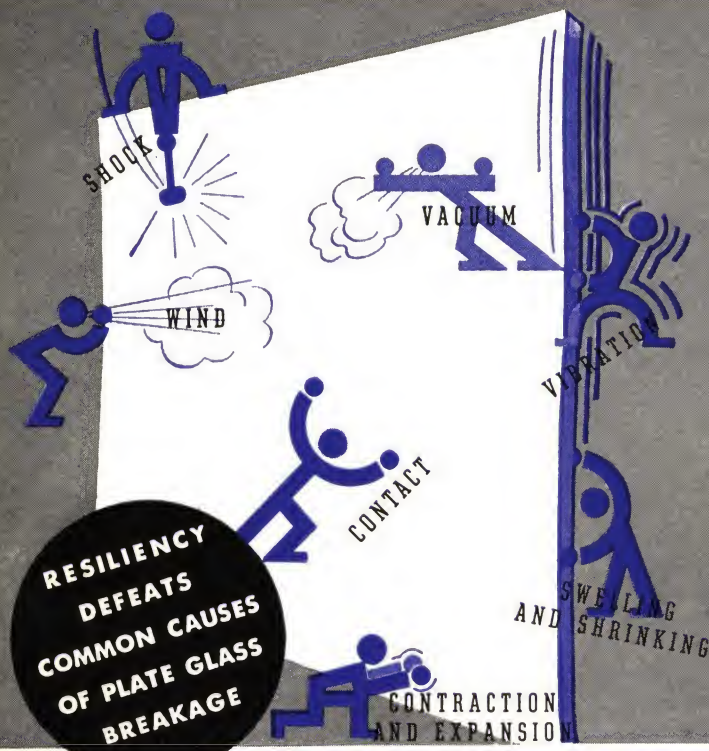


Kawneer

STORE FRONTS

RESILIENCY

A BASIC KAWNEER PRINCIPLE —IMPORTANT TO ARCHITECT, BUILDER AND MERCHANT



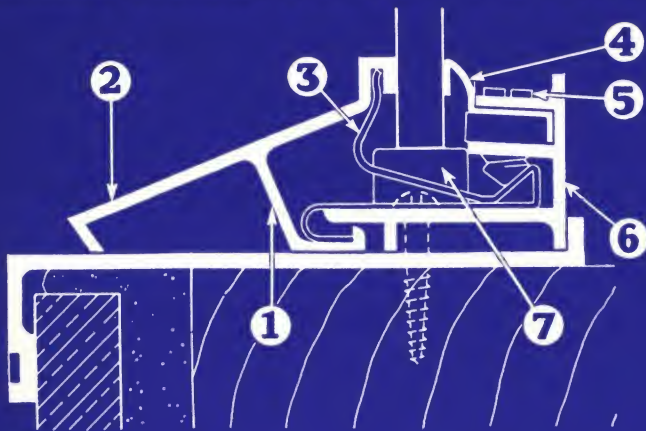
IT IS A WELL-KNOWN FACT that plate glass in store fronts is subject to a number of hazards, from a variety of sources. Glass bows in from wind pressure, bows out when wind pressure is suddenly stopped. It is endangered by contact from pedestrians, by shock from falling objects. Vibration is set up by street cars, trucks, busses, subway or railroad trains. The swelling, shrinking, contraction and expansion of other materials in the building exert their pressures on the plate glass.

These various factors cannot be eliminated. Whether they result in glass breakage, however, depends on the manner in which the glass is held—on the FUNCTIONING of the glass-holding sash and bars. If the grip is loose and insecure, if it is rigid and unyielding, or if it is localized, the danger of glass breakage is greatly increased, for obvious reasons.

With Kawneer construction, the possibility of glass breakage is practically eliminated, for glass is held in a firm, secure, and evenly-distributed grip which yields sufficiently to prevent damage from movement of glass or framing. Kawneer sash and bars are FULLY RESILIENT—WHETHER ROLLED OR EXTRUDED. This basic Kawneer principle, established in 1905, explains why hundreds of thousands of Kawneer Store Fronts are giving safe, dependable service to merchants everywhere today.

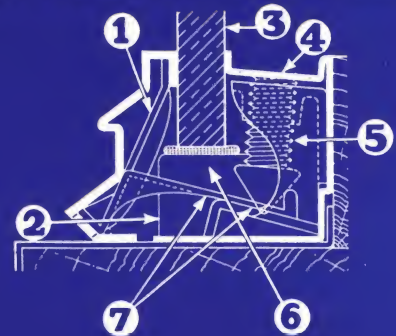
MAIN PLANT **THE Kawneer COMPANY** NILES, MICH.

RESILIENT EXTRUDED STORE FRONT SASH No. A-1-AX

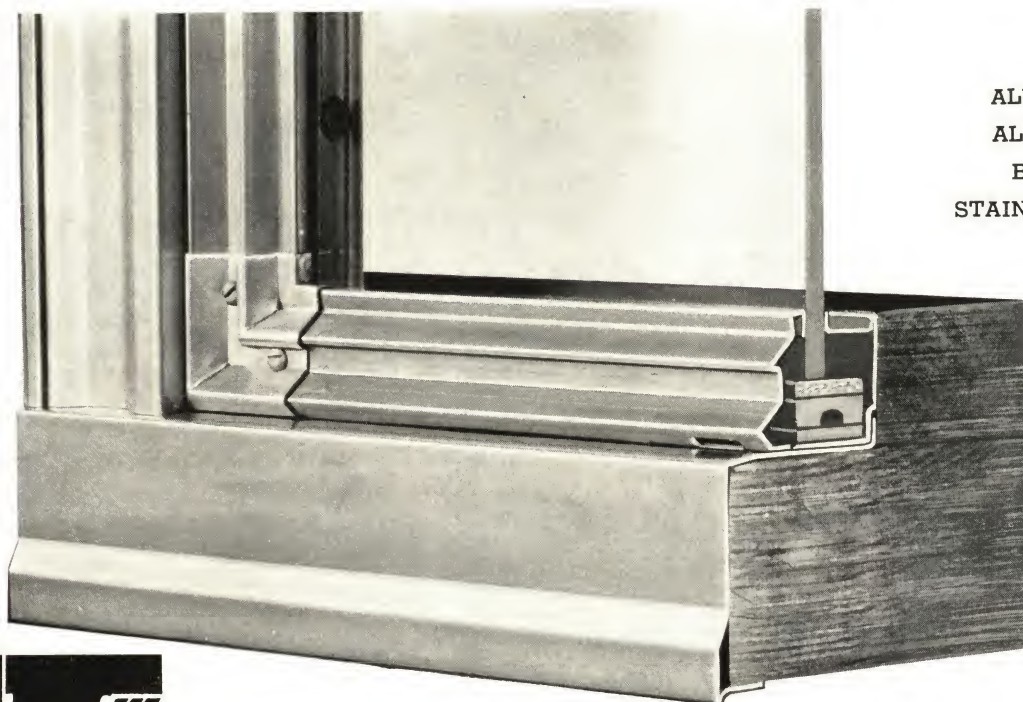


The first fully resilient Extruded Sash. 1. Face piece floats on Spring Mechanisms, and spreads pressure along entire face of glass. Removable only from inside. 2. Note simple, modern design. Lines are straight and true. 3. Fully resilient Spring Mechanisms provide a strong yet yielding grip—equally effective on glass varying from $\frac{1}{16}$ " to $\frac{1}{2}$ ". No looseness. No binding. No rigidity. 4. Large, fully resilient Spring maintains continuous grip on back of glass. 5. Large trough to drain moisture from glass. 6. Strong gutter member, securely anchored at back or below. 7. Wide, sturdy, setting block, with leather cushion.

RESILIENT ROLLED STORE FRONT SASH No. 88



A safe, dependable, time-tested glass setting. 1. Draw-plate and Screw Bracket of specially formed Spring metal assure an even, secure grip on glass which yields sufficiently to prevent glass breakage. Pressure is spread out along surface of glass by face piece. No looseness. No binding. No rigidity. 2. Wide, sturdy, adjustable supporting block. 3. Glass varying from $\frac{1}{16}$ " to $\frac{1}{2}$ " in thickness is held with equal grip. A uniform pressure is maintained along entire surface of glass, on both sides. 4. Trough of large capacity to drain moisture from glass. 5. Screw cannot be removed thus preventing loss or misplacement. 6. Glass rests on leather—does not touch screw. No chance of chipping or breaking. 7. Incline of Screw Bracket and Draw-plate leads face member inward in true alignment. Countless installations have proved the splendid glass protection afforded by resilient Kawneer settings.

ROLLED STORE FRONT CONSTRUCTION**19**
7ALUMINUM
ALUMILITE
BRONZE
STAINLESS STEELPATENTED
AND PATENTS
APPLIED FOR**SASH No. 88**

This simple, attractive store front sash holds glass by indirect screw pressure, applied from the back. The functioning of this sash is based on fundamental Kawneer principles of resiliency, explained in detail on the opposite page. Chances of glass breakage are practically eliminated. Sash is perforated at intervals for drainage and face piece is provided with ventilation holes unless otherwise specified.

The Kawneer line of rolled store front construction, suitable for store fronts of every description, is complete and up-to-date in design. Parts are furnished for every store front use — including sash, bars, awning bars, transom bars, mouldings, pilasters, sign letters, rustless metal doors, metal paneling, bulkheads, grilles, thresholds, showcase doors, ventilators, poster frames, cast ornaments, and architectural metal work.

This construction is cold-rolled, straight and true, in suitable modern alloys of aluminum, bronze, or stain-

less steel. The alumilite finish is recommended for aluminum, since it hardens the surface, giving extra protection against atmosphere and abrasion, and imparting a unique and appealing gloss and color to the aluminum itself. Kawneer maintains ample equipment for alumiliting all parts in its own plant (see page 6). Satin finish is standard for all metals, but polished, statuary or other practical finishes are also available.

Mouldings are formed to fit standard sizes of lumber. For data on items not listed in this catalog, see the Kawneer distributor or write the factory at Niles, Michigan.

2

HOOD AWNING BAR

CONCEALED AWNING BAR

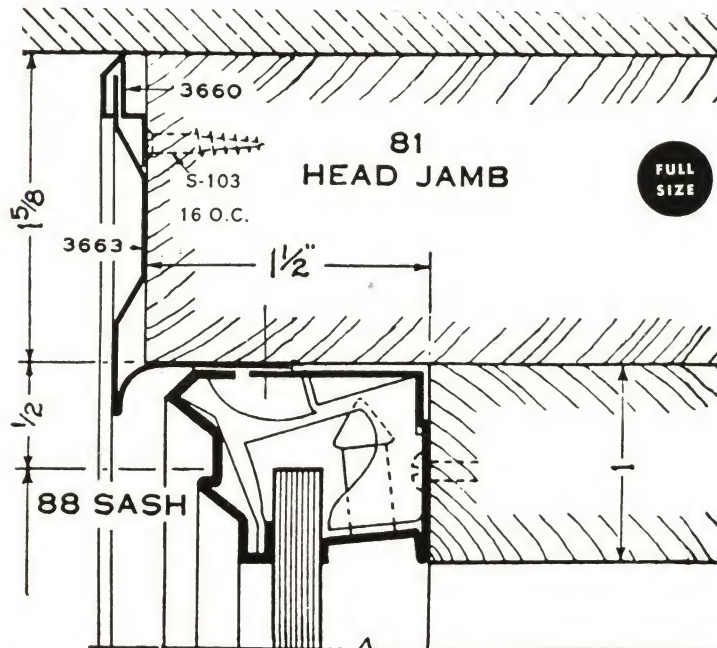
RECESSED AWNING BAR

TRANSOM BAR

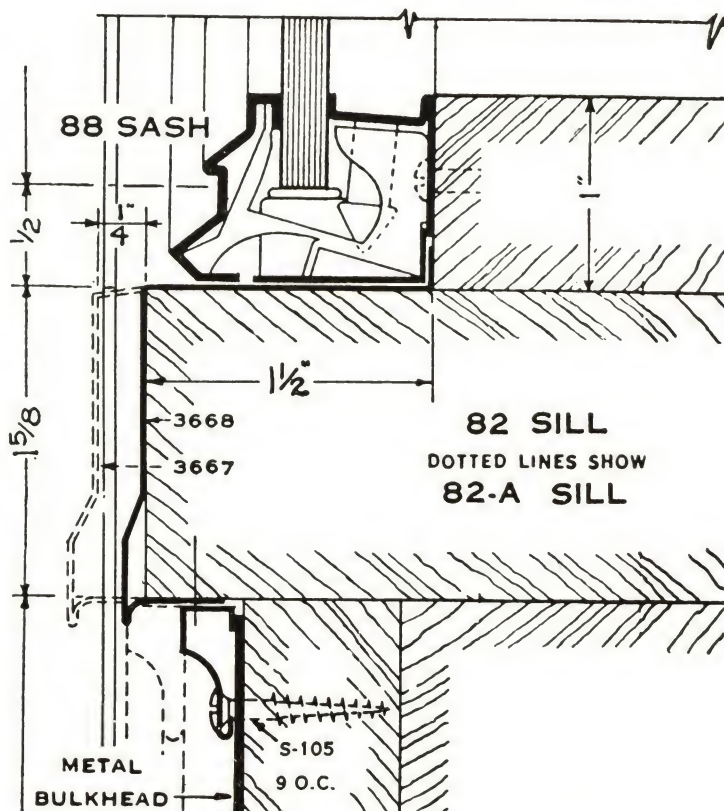
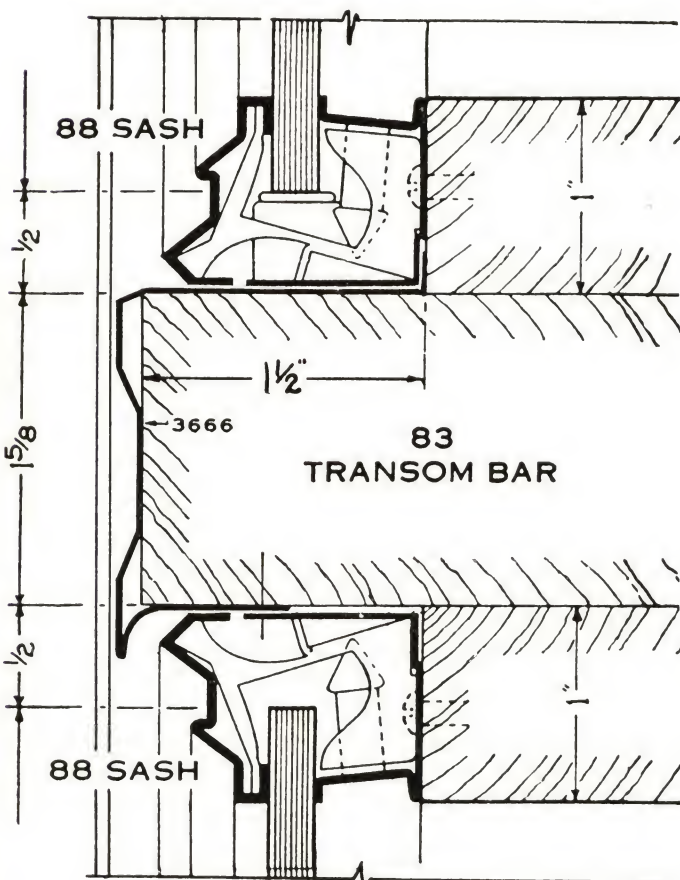


19
7

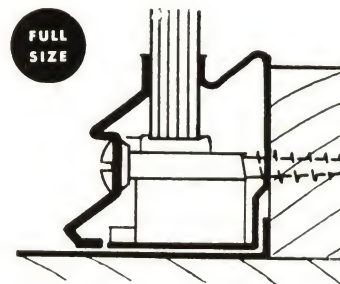
ROLLED STORE FRONT CONSTRUCTION



PATENTED AND PATENTS PENDING



VERTICAL SECTION

**SASH
77**PATENTED AND
PATENTS PENDING

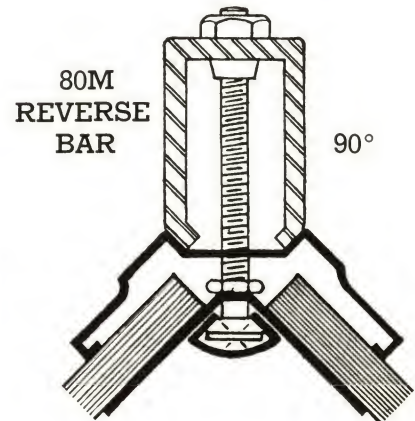
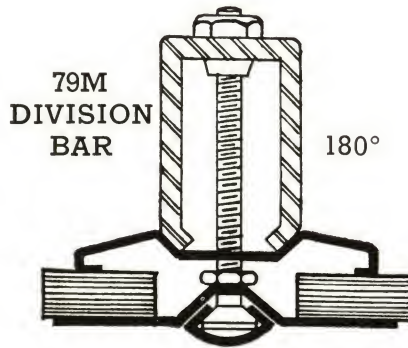
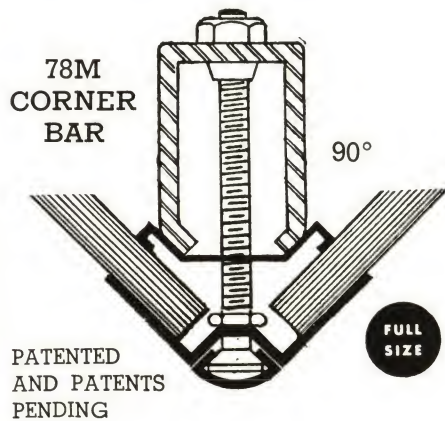
Kawneer Sash 77 is a simple, screw-pressure type of cold-rolled sash, proved by over 30 years of general use. Fully RESILIENT members are fabricated from proper alloys of aluminum, bronze, or stainless steel in any practical finish. Satin finish is standard. The alumilite finish on aluminum is especially recommended.

This sash presents a neat appearance for the average front.

F. S. DETAILS AVAILABLE ON COMPLETE KAWNEER LINE — ROLLED AND EXTRUDED

ROLLED STORE FRONT CONSTRUCTION

19
7

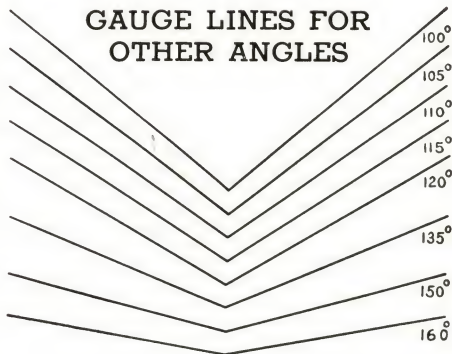


BARS AND STIFFENERS

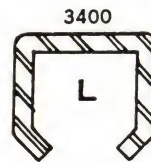
Stock angles for rolled bars are illustrated or shown in gauge lines at left, but these bars may be obtained at any angle desired. Kawneer Bars should always be used, to complete the framing of the show window, to minimize chances of glass breakage by providing full resiliency all around the plate glass, and to avoid the chance of injury to the passerby.

STIFFENERS should be specified according to Table of Bars below. X reinforcement for Heavy Stiffener supplied only when specified.

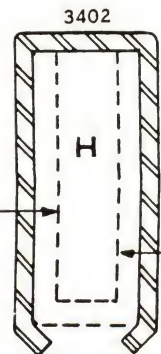
GAUGE LINES FOR OTHER ANGLES



3401
MEDIUM
STIFFENER
M SHOWN
WITH BARS
ABOVE



LIGHT



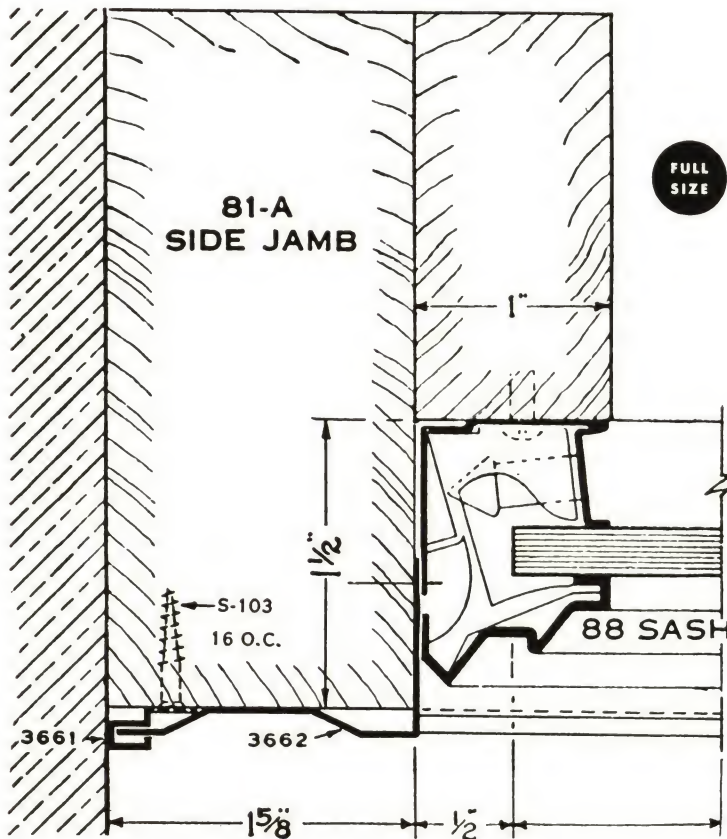
HEAVY

TABLE OF BARS

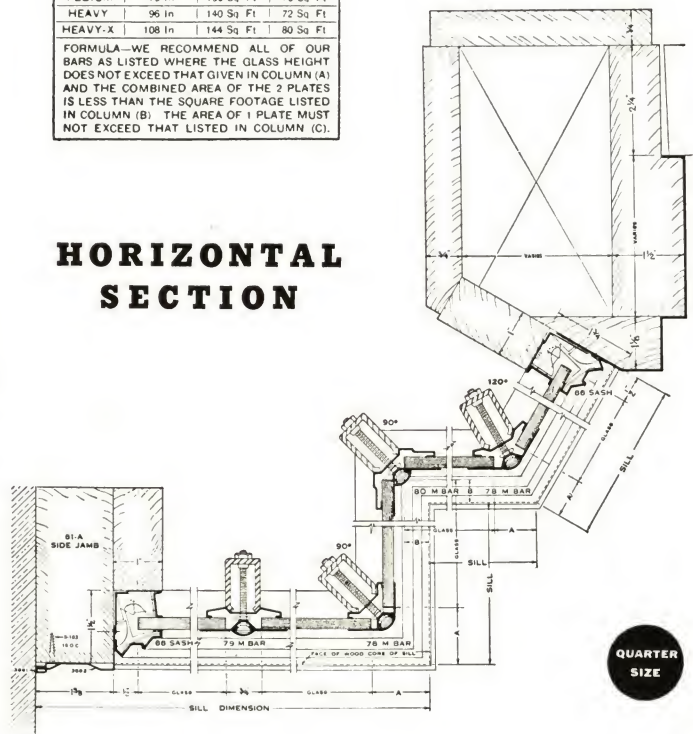
IN ORDER TO FACILITATE THE SELECTION OF PROPER BARS WE SUBMIT A TABLE WHICH WE BELIEVE WILL BE OF GREAT ASSISTANCE IN ORDERING. WE ARE ALSO SUBMITTING A FORMULA AS AN EXPLANATION OF THIS TABLE.

STIFFENER	A	B	C
LIGHT	60 In	100 Sq Ft	55 Sq Ft
MEDIUM	78 In	130 Sq Ft	70 Sq Ft
HEAVY	96 In	140 Sq Ft	72 Sq Ft
HEAVY-X	108 In	144 Sq Ft	80 Sq Ft

FORMULA—WE RECOMMEND ALL OF OUR BARS AS LISTED WHERE THE GLASS HEIGHT DOES NOT EXCEED THAT GIVEN IN COLUMN (A) AND THE COMBINED AREA OF THE 2 PLATES IS LESS THAN THE SQUARE FOOTAGE LISTED IN COLUMN (B). THE AREA OF 1 PLATE MUST NOT EXCEED THAT LISTED IN COLUMN (C).

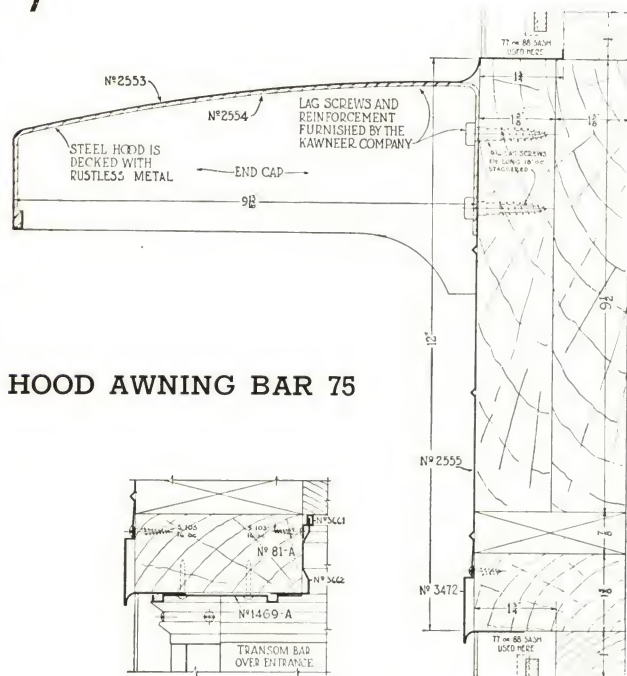


HORIZONTAL SECTION

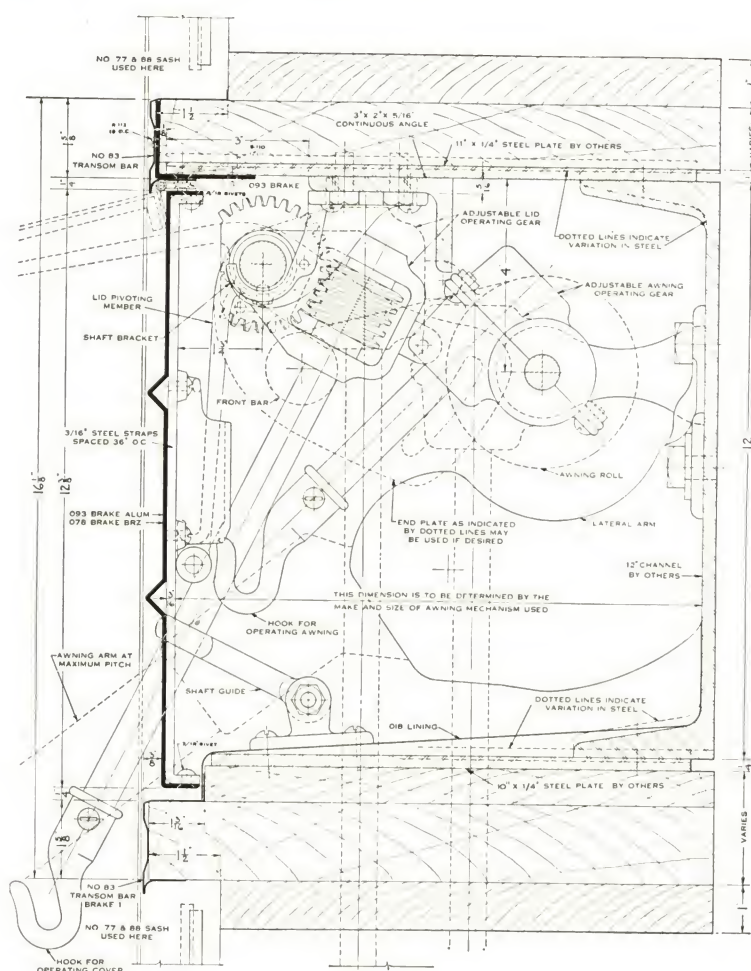


$$\frac{19}{7}$$

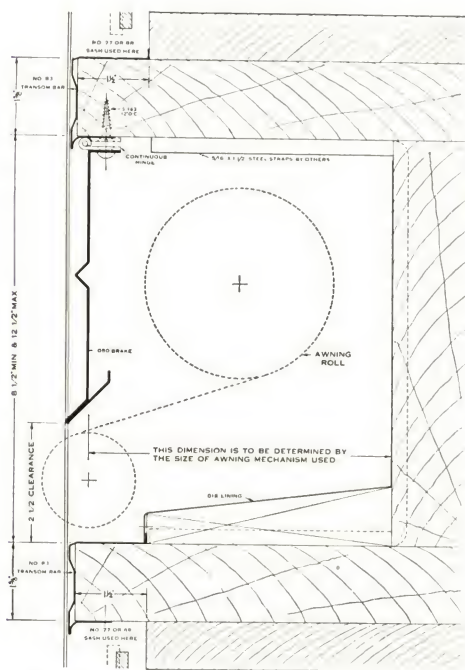
ROLLED STORE FRONT CONSTRUCTION



HOOD AWNING BAR 75



CONCEALED AWNING BAR 32-H



RECESSED AWNING BAR 35

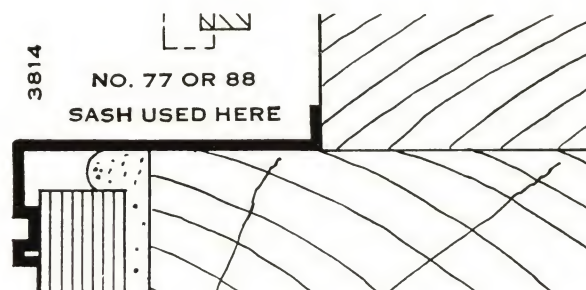
**QUARTER
SIZE**

PATENTED
AND
PATENTS
PENDING

AWNING BARS

The three types of awning bars detailed on this page are very attractive and practical for any type of front. HOOD type is simple in design, is easily installed, and gives dependable protection. It may be used with lateral or outrigger arms. CONCEALED type hides and protects the awning roll when not in use; can be used ONLY with lateral arms. Typical construction shown. Awning mechanism is to be furnished by others. Concealed Awning Bar with pivoted cover is also available. RECESSED type protects awning roll in recessed box; can be used ONLY with outrigger arms. Hinged cover is detailed and recommended but stationary cover is available.

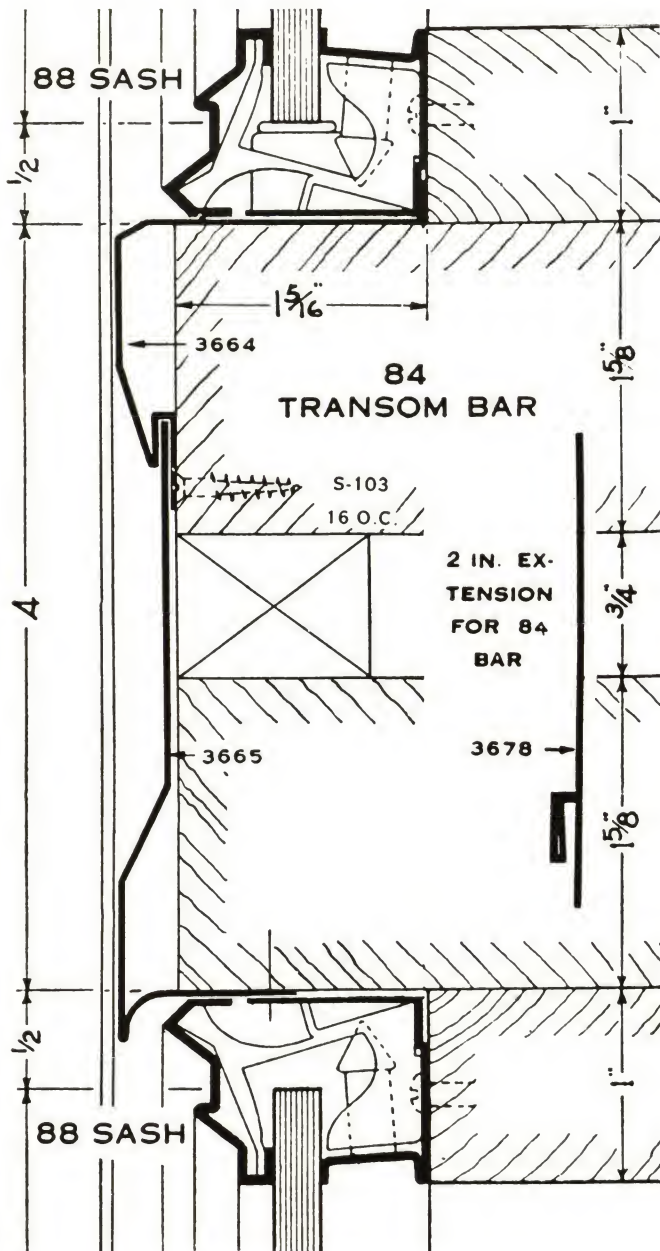
SILL AND JAMB MOULDINGS



3093

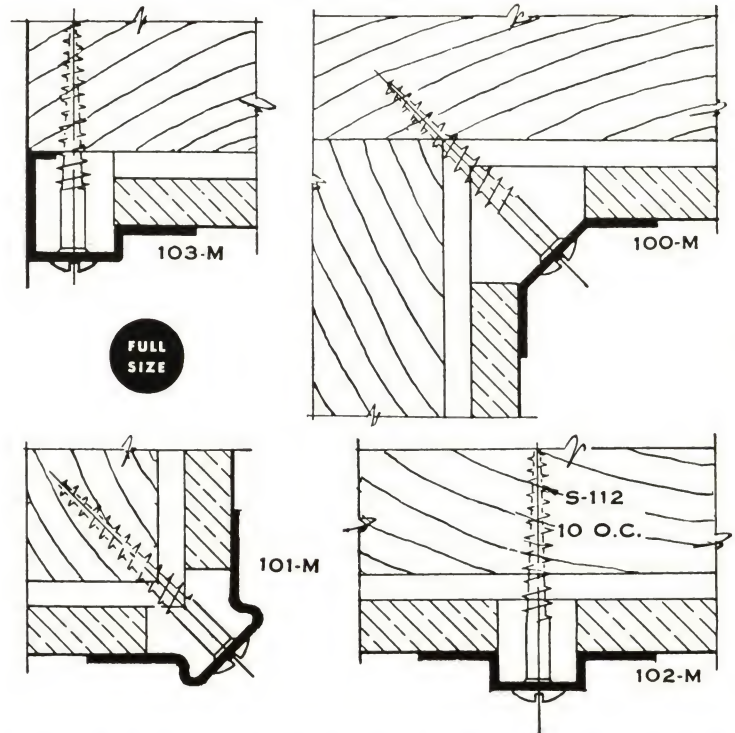
ROLLED STORE FRONT CONSTRUCTION

19
7



TRANSOM BAR 84

Narrower Transom Bar detailed with Vertical Section on page 3.
Wider Bars are accommodated by use of extension 3678.



MIRROR FRAME MOULDINGS



SIGNS • SPECIAL METAL WORK

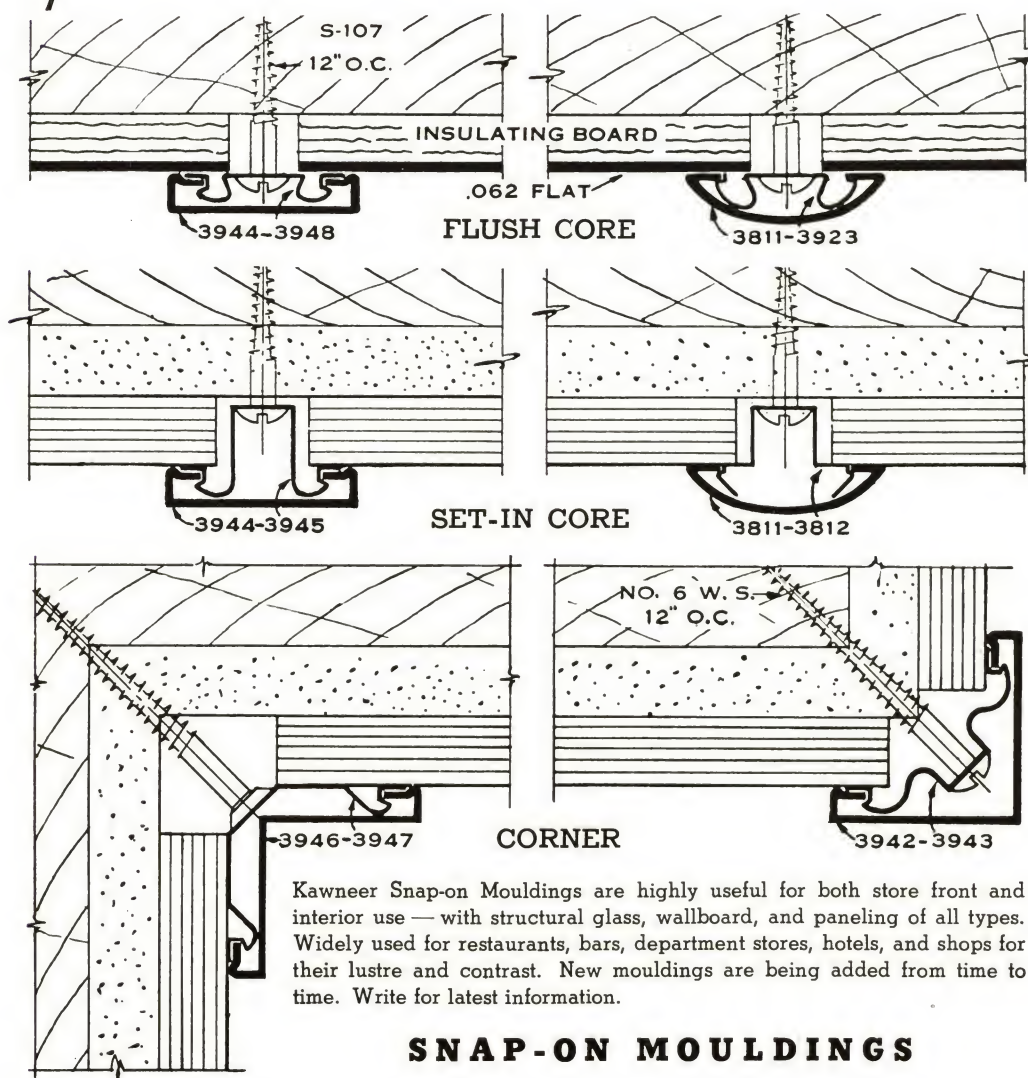
In addition to material detailed in this catalog Kawneer furnishes many other mouldings and shapes, and fabricates all types of special metal work to order. Write for data.

ALUMILITED ALUMINUM

SPECIAL ATTENTION IS DIRECTED TO THE ALUMILITE (ANODIC) FINISH — AN ELECTRO-CHEMICAL PROCESS WHICH HARDENS THE SURFACE OF THE ALUMINUM ITSELF. THIS IS AN IDEAL FINISH SINCE IT AFFORDS MUCH GREATER PROTECTION AGAINST ABRASION AND ATMOSPHERIC CONDITIONS; IS NON-STAINING, NON-SEIZING; AND GIVES THE METAL A SOFT GLOSS AND APPEALING COLOR. EASILY CLEANED. REDUCES CORROSION TO THE MINIMUM.

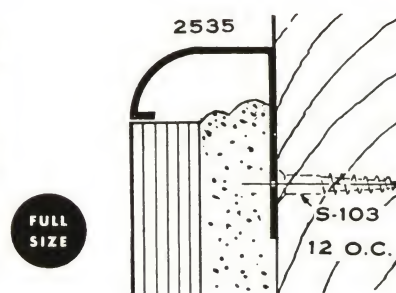
19
7

ROLLED STORE FRONT CONSTRUCTION

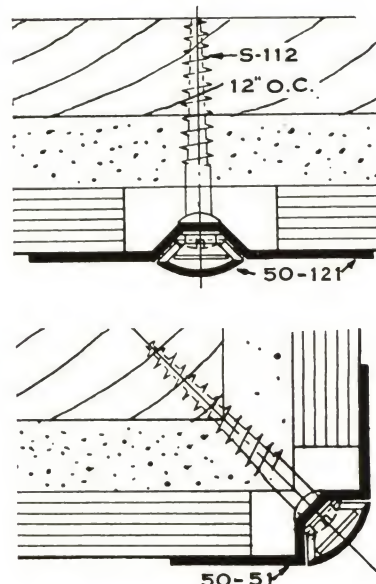


Kawneer Snap-on Mouldings are highly useful for both store front and interior use — with structural glass, wallboard, and paneling of all types. Widely used for restaurants, bars, department stores, hotels, and shops for their lustre and contrast. New mouldings are being added from time to time. Write for latest information.

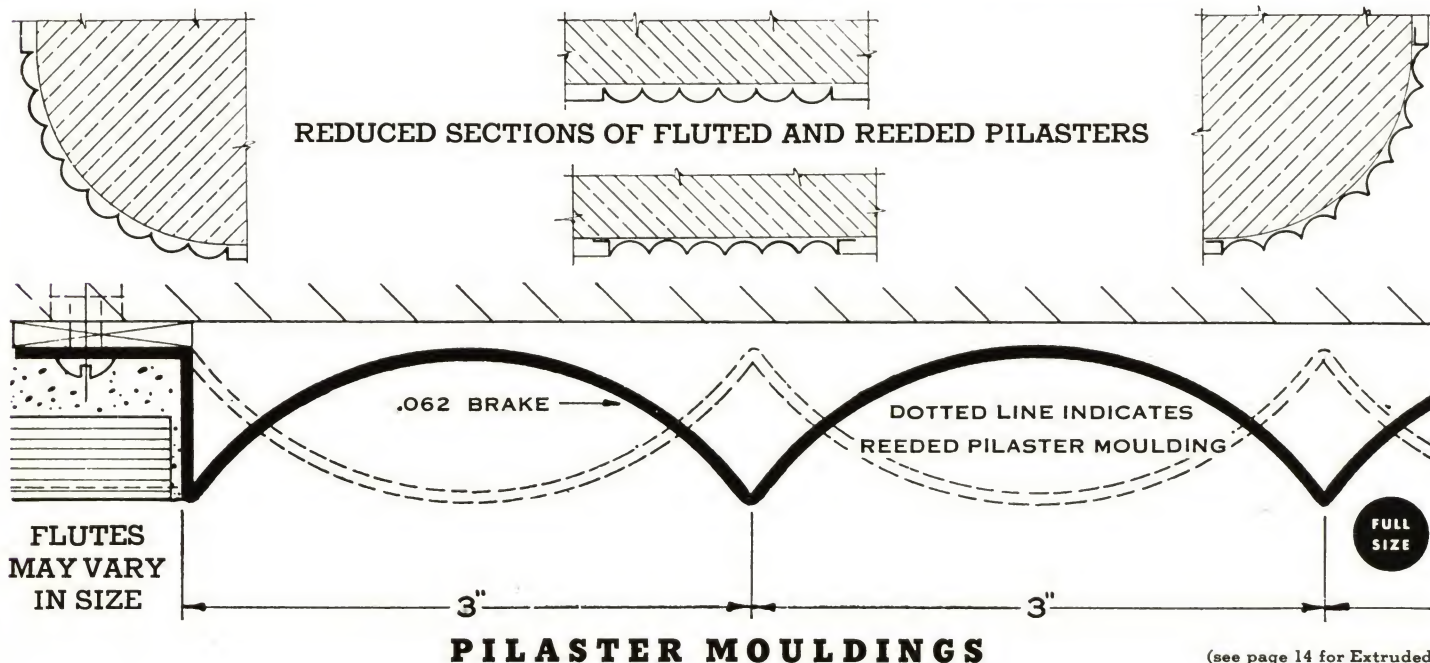
SNAP-ON MOULDINGS



TRIM AT END

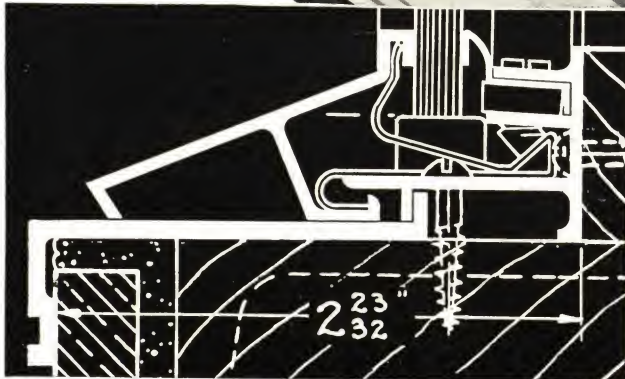


OUTSIDE SETTING TRIM MOULDINGS



PILASTER MOULDINGS

(see page 14 for Extruded)

EXTRUDED STORE FRONT CONSTRUCTION19
7ALUMILITE
OR BRONZE**RESILIENT EXTRUDED
SASH No. A-1-X**PATENTED AND
PATENTS PENDING

This **RESILIENT EXTRUDED SASH** provides a truly safe and dependable glass setting for those who prefer the heavy extruded construction. Although extruded shapes are by their very nature rigid and unyielding, the introduction of fully resilient Spring Mechanism at front and of continuous Spring at back, creates an element of flexibility which prevents glass breakage.

This resiliency allows for the inevitable movement of plate glass and framing, yet maintains a firm, secure grip at all times — equally distributed along surface, and equally

effective on glass varying in thickness from $\frac{3}{16}$ " to $\frac{5}{16}$ ". No looseness. No binding. No rigidity. (See page 1)

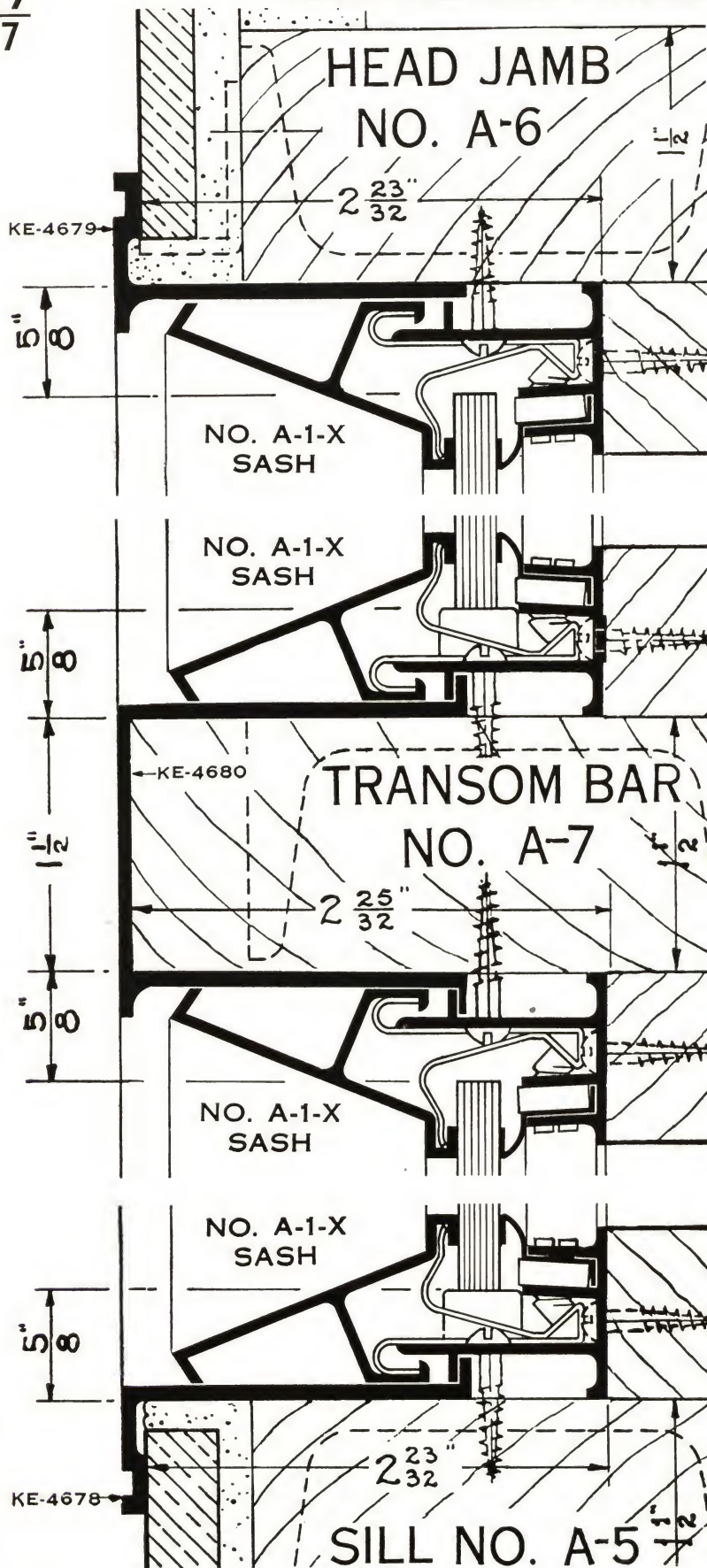
Sash can be mitered perfectly, but corner caps are available if desired. Drainage holes are provided in gutter, but ventilation holes are made in sash only when specified. Sash is self-supporting.

The complete line of Kawneer Extruded Store Front Construction is harmoniously designed in simple, striking lines, and includes attractive shapes for every store front purpose. An ideal construction to use where richness, lasting beauty and dependable glass protection are desired.

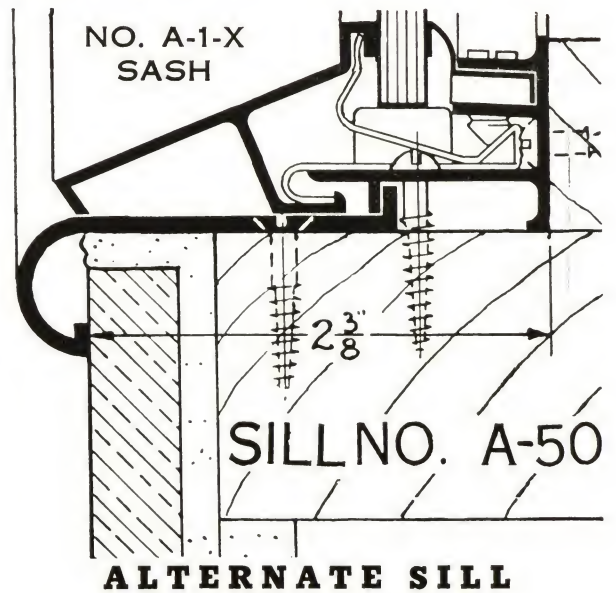
HOOD AWNING BAR**CONCEALED AWNING BAR****RECESSED AWNING BAR****TRANSOM BAR**

19
7

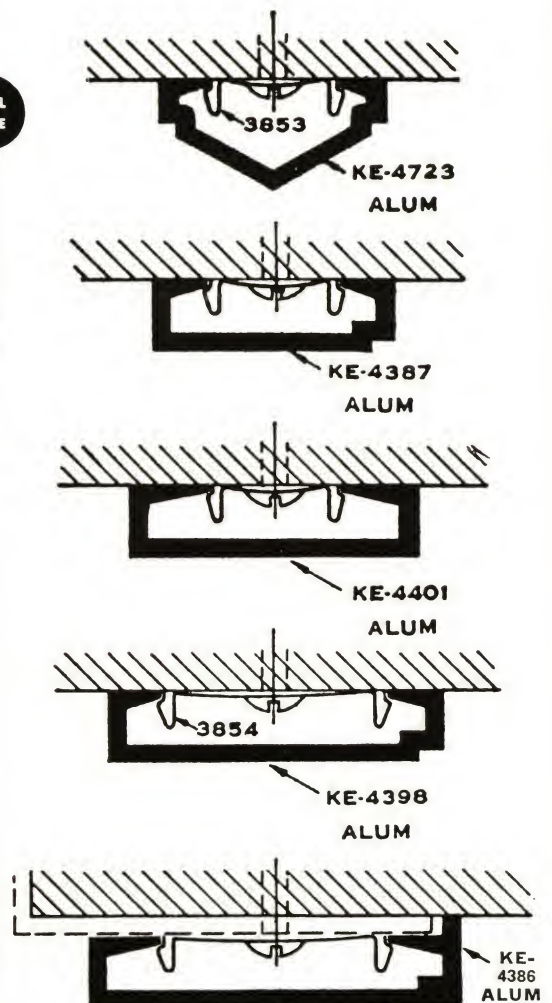
EXTRUDED STORE FRONT CONSTRUCTION



VERTICAL SECTION



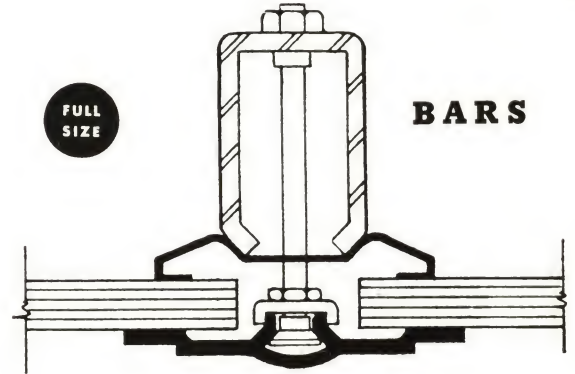
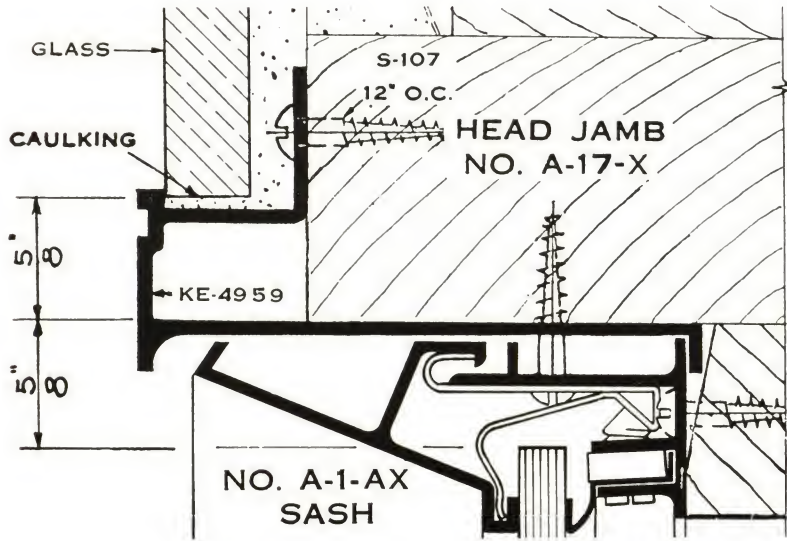
FULL
SIZE



SNAP-ON MOULDINGS

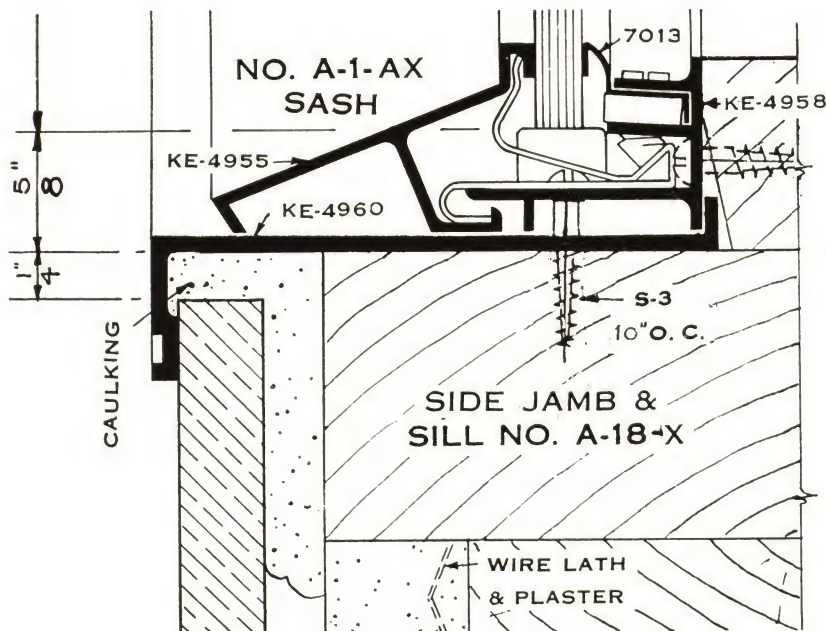
For a wide variety of uses—exterior and interior.

EXTRUDED STORE FRONT CONSTRUCTION

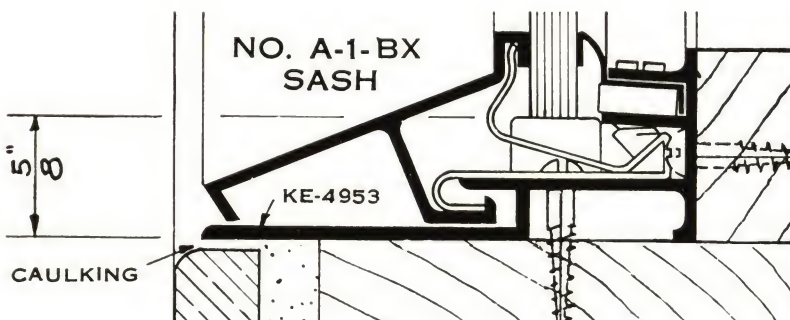
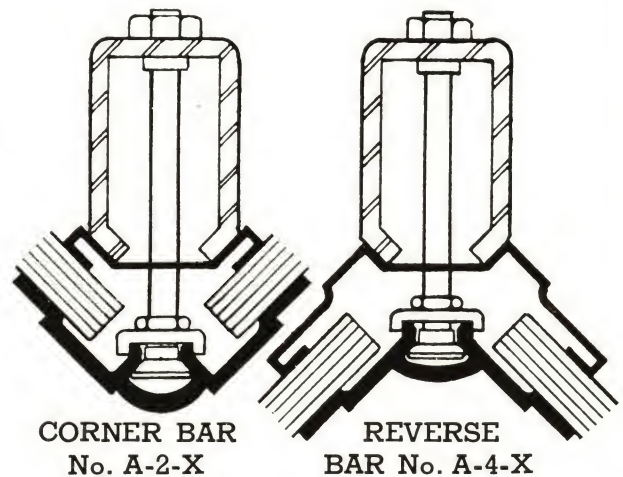
19
7

DIVISION BAR No. A-3-X

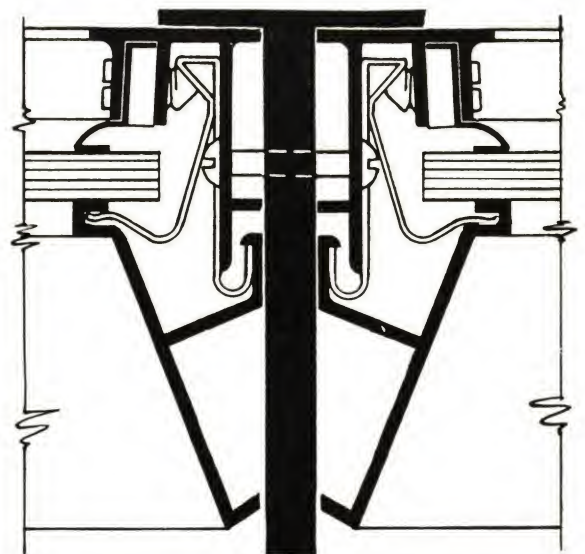
EXTRUDED BARS are carried in stock at these angles: 90°, 110°, 120°, 135°, and 160°—both Corner and Reverse. They may be obtained at any angle, however. Data on page 4 regarding Stiffeners applies.



PATENTED AND PATENTS PENDING



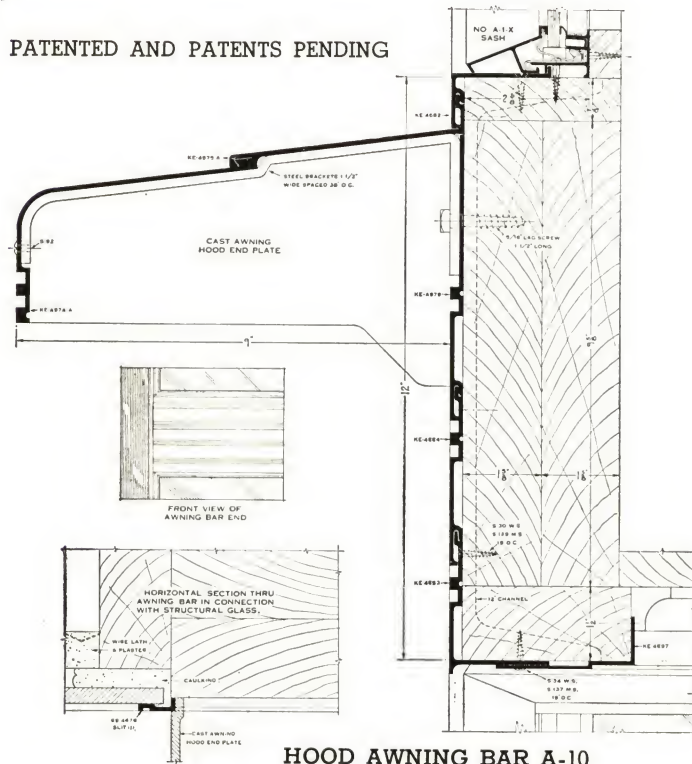
ALTERNATE SASH, JAMBS AND SILLS



This Bar is used where a very definite division between show windows is desired.

EXTRUDED STORE FRONT CONSTRUCTION

PATENTED AND PATENTS PENDING

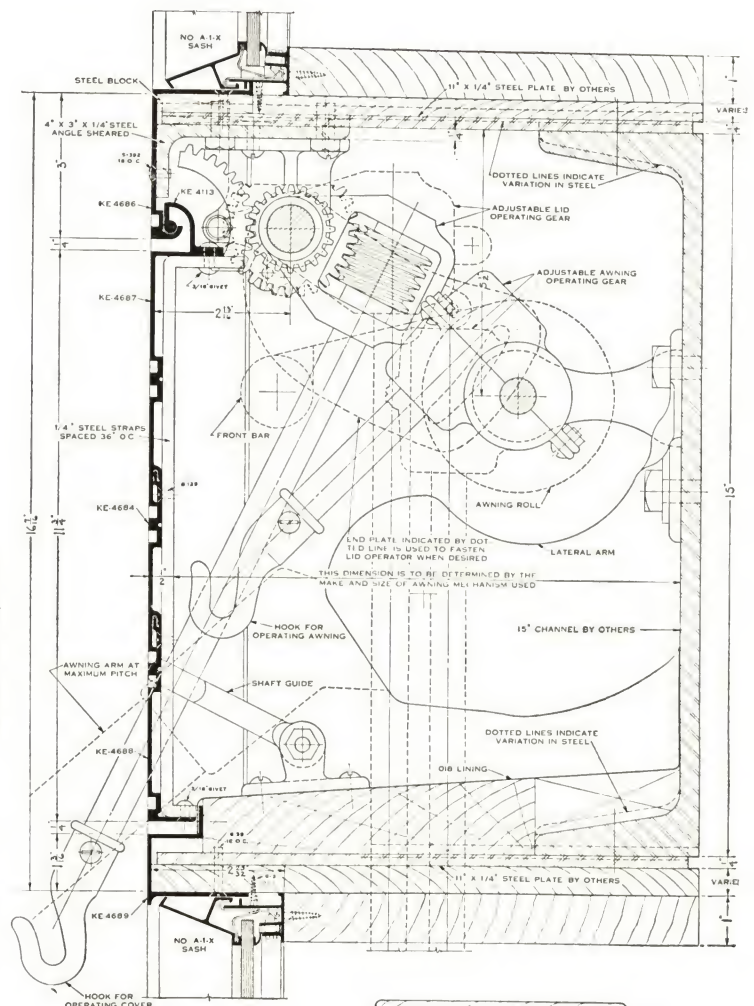


HOOD AWNING BAR A-10

An exceptionally graceful awning bar, which may be used with either lateral or outrigger arms. Steel channel shown by dotted lines is optional.

CONCEALED AWNING BAR A-11-H

Awning roll is protected and completely hidden when not in use — a very desirable condition. For use with lateral arms ONLY. Awning mechanism by others. Pivoted type also available.

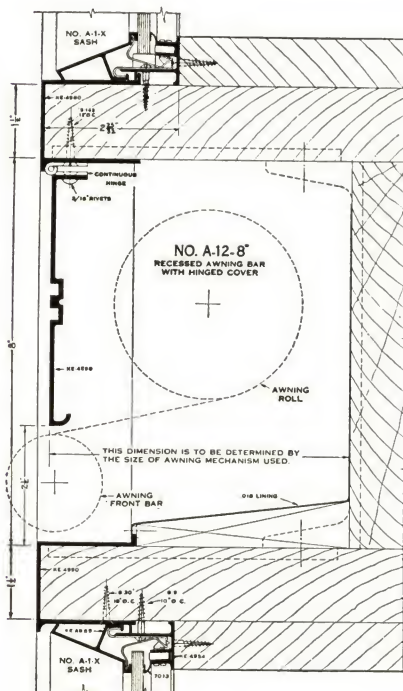


AWNING BARS

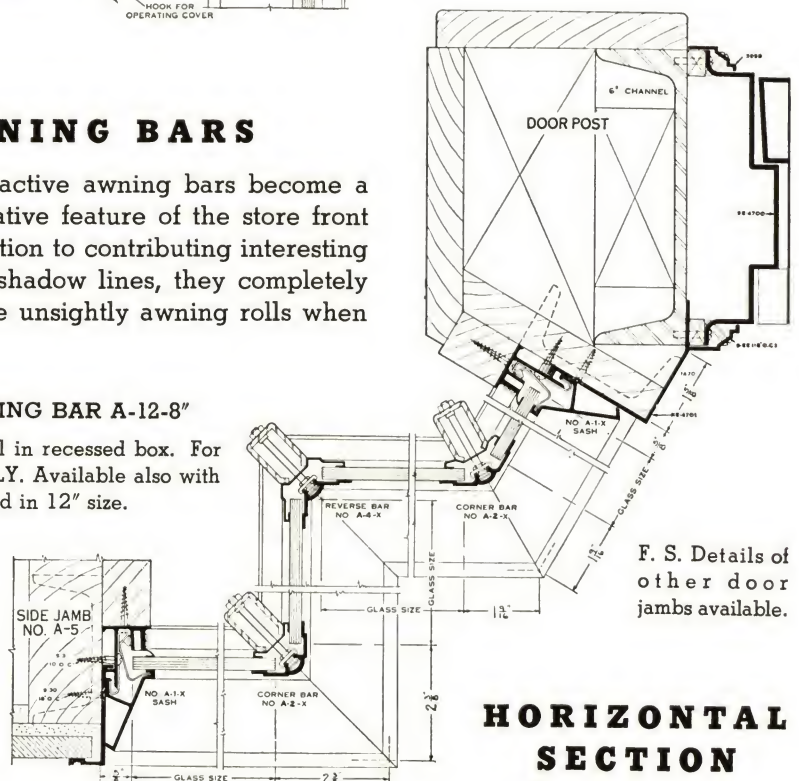
These very attractive awning bars become a valuable decorative feature of the store front design. In addition to contributing interesting highlights and shadow lines, they completely or partially hide unsightly awning rolls when not in use.

RECESSED AWNING BAR A-12-8"

Protects awning roll in recessed box. For outrigger arms ONLY. Available also with stationary cover, and in 12" size.



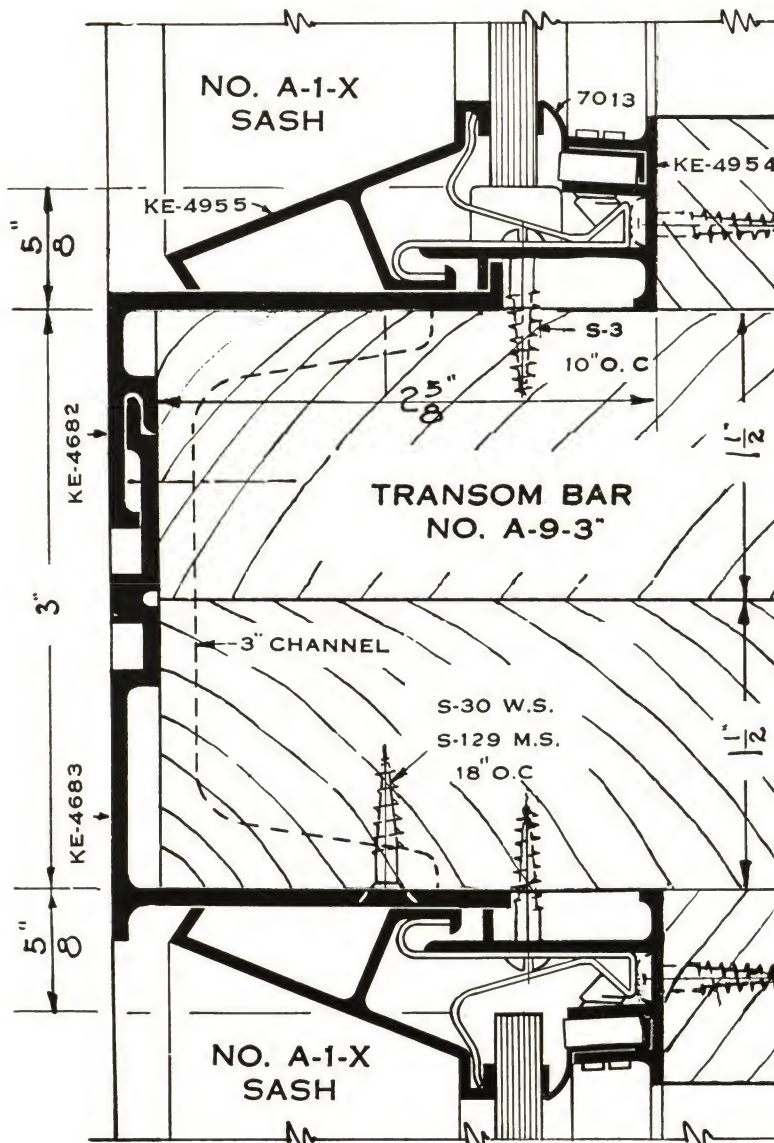
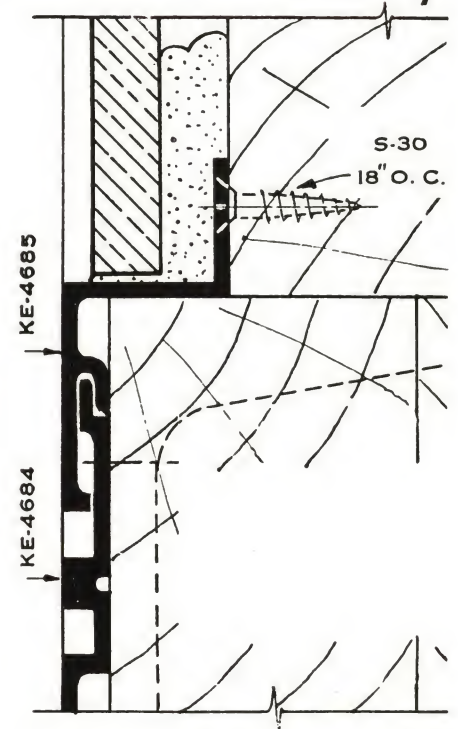
QUARTER
SIZE



F. S. Details of
other door
jambs available.

HORIZONTAL
SECTION

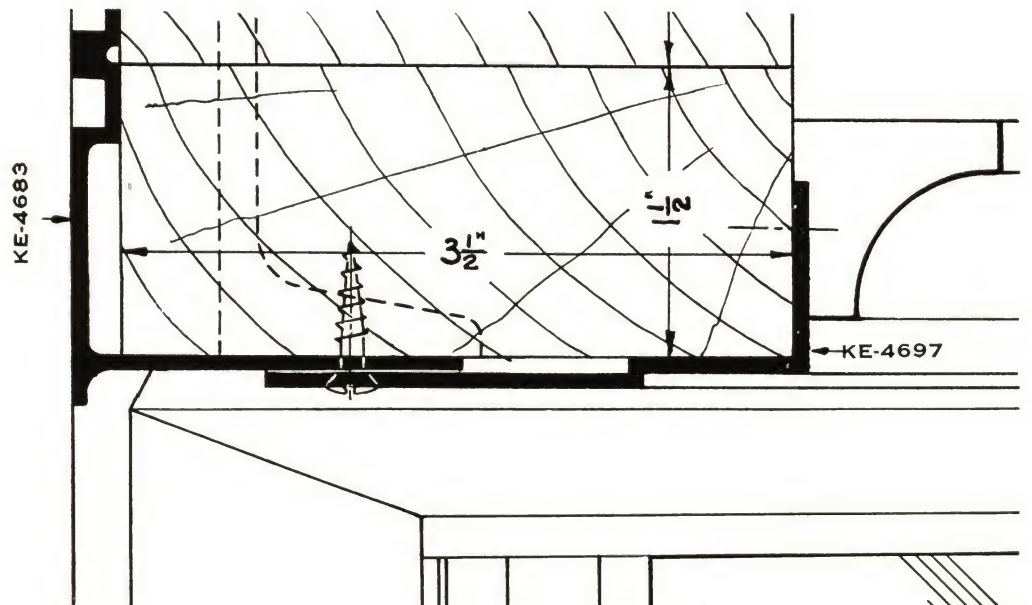
EXTRUDED STORE FRONT CONSTRUCTION

19
7EXT. MLDG.
4684TRANSON OR AWNING
BAR WITH STR. GLASS**TRANSON BARS**

Transom Bar No. A-9-3", detailed at left, can be extended to 6", 9", and 12" by use of Extension Moulding 4684, shown above. 1½" Bar A-7 is shown with Vertical Section on page 9. 4" Bar No. A-8 is similar in appearance to A-9 series, but one shape only is used.

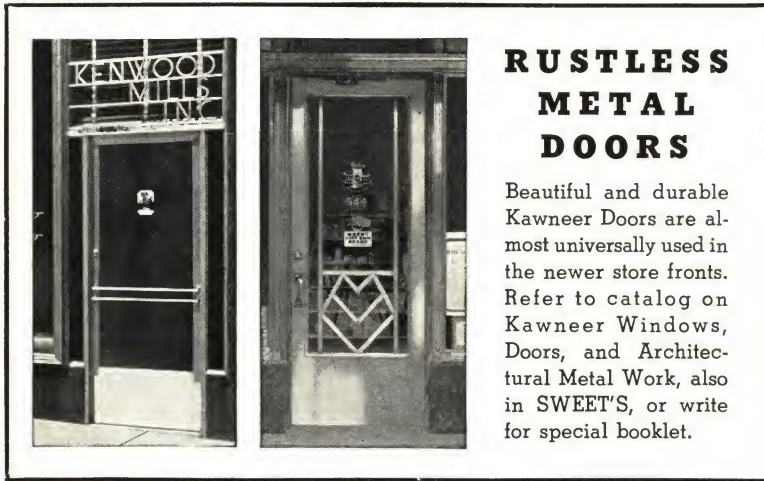
FULL
SIZETRANSON OR AWNING
BAR OVER ENTRANCE**WINDOWS?**

Second-story windows often become a problem when store fronts are planned. Your attention is directed to Kawneer Sealair Windows of solid aluminum or bronze, which harmonize ideally with Kawneer store front metal. See separate catalog in SWEET'S.



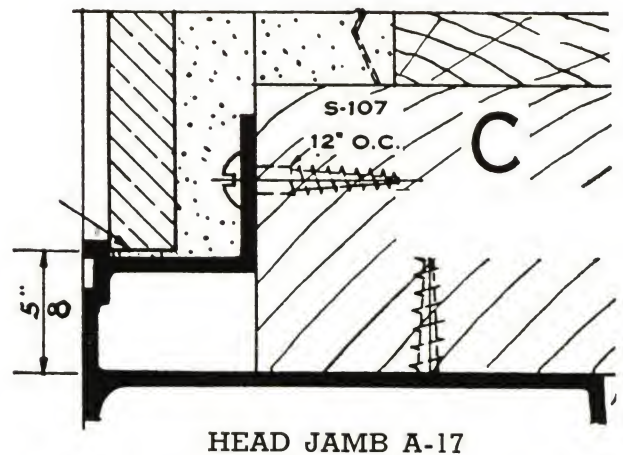
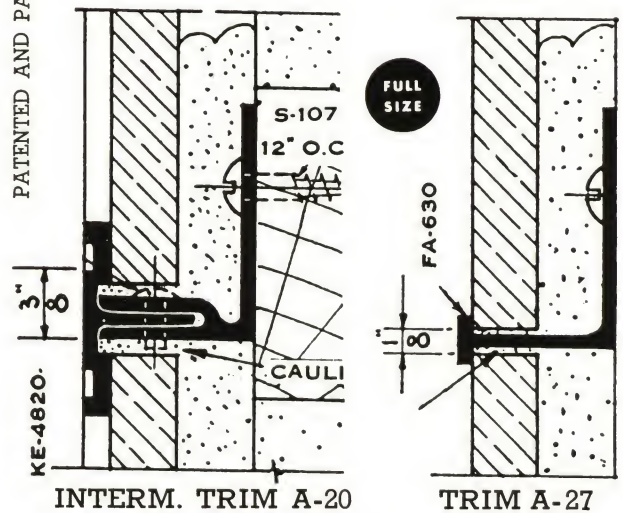
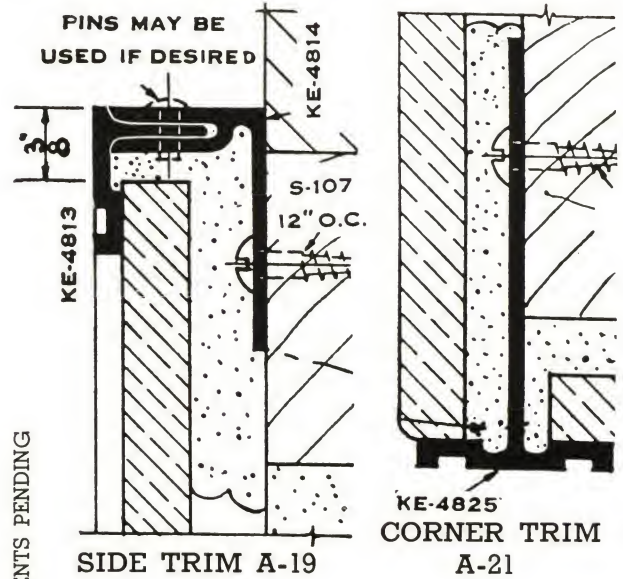
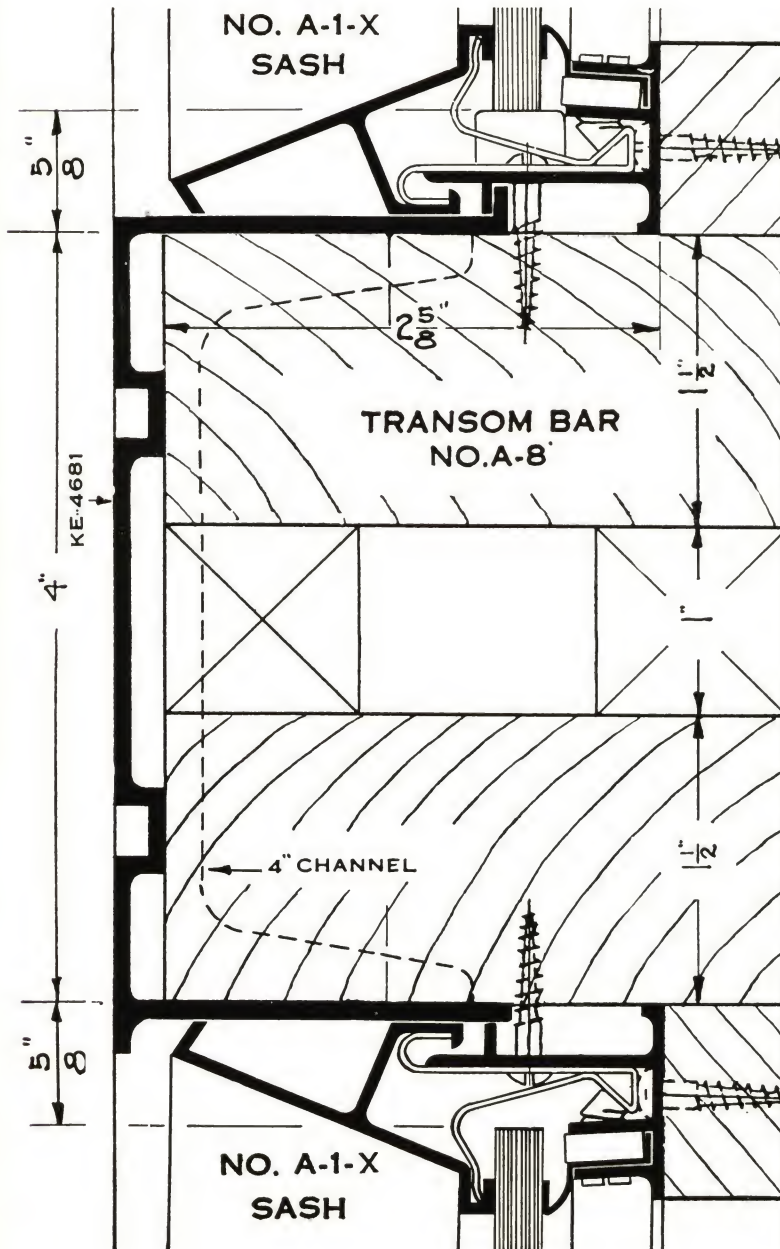
19
7

EXTRUDED STORE FRONT CONSTRUCTION



**RUSTLESS
METAL
DOORS**

Beautiful and durable Kawneer Doors are almost universally used in the newer store fronts. Refer to catalog on Kawneer Windows, Doors, and Architectural Metal Work, also in SWEET'S, or write for special booklet.



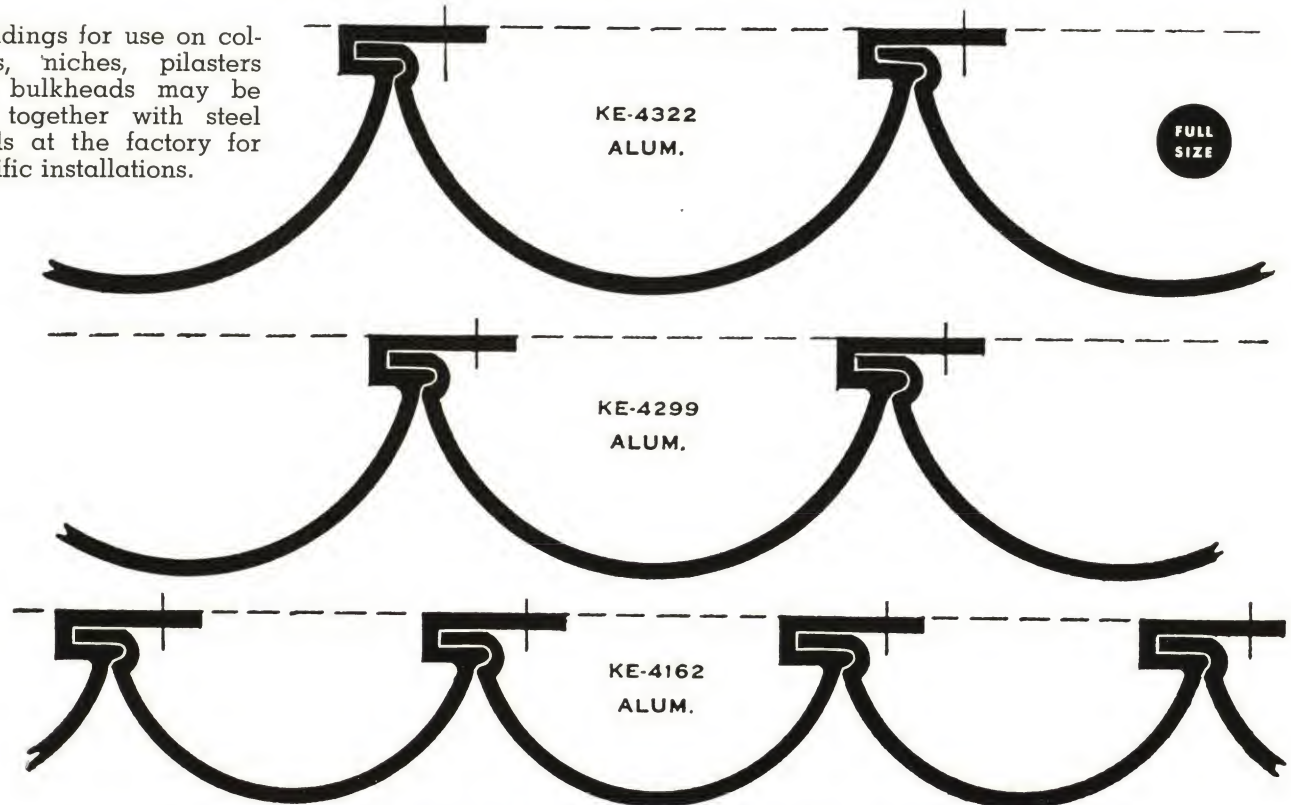
MOULDINGS FOR STR. GLASS

These strong mouldings add life and contrast, and help support the structural glass. Head Jamb A-17 is for use with Extruded Sash. No. A-1-AX or with special sash and muntins for small panes of glass.

EXTRUDED STORE FRONT CONSTRUCTION

19
7

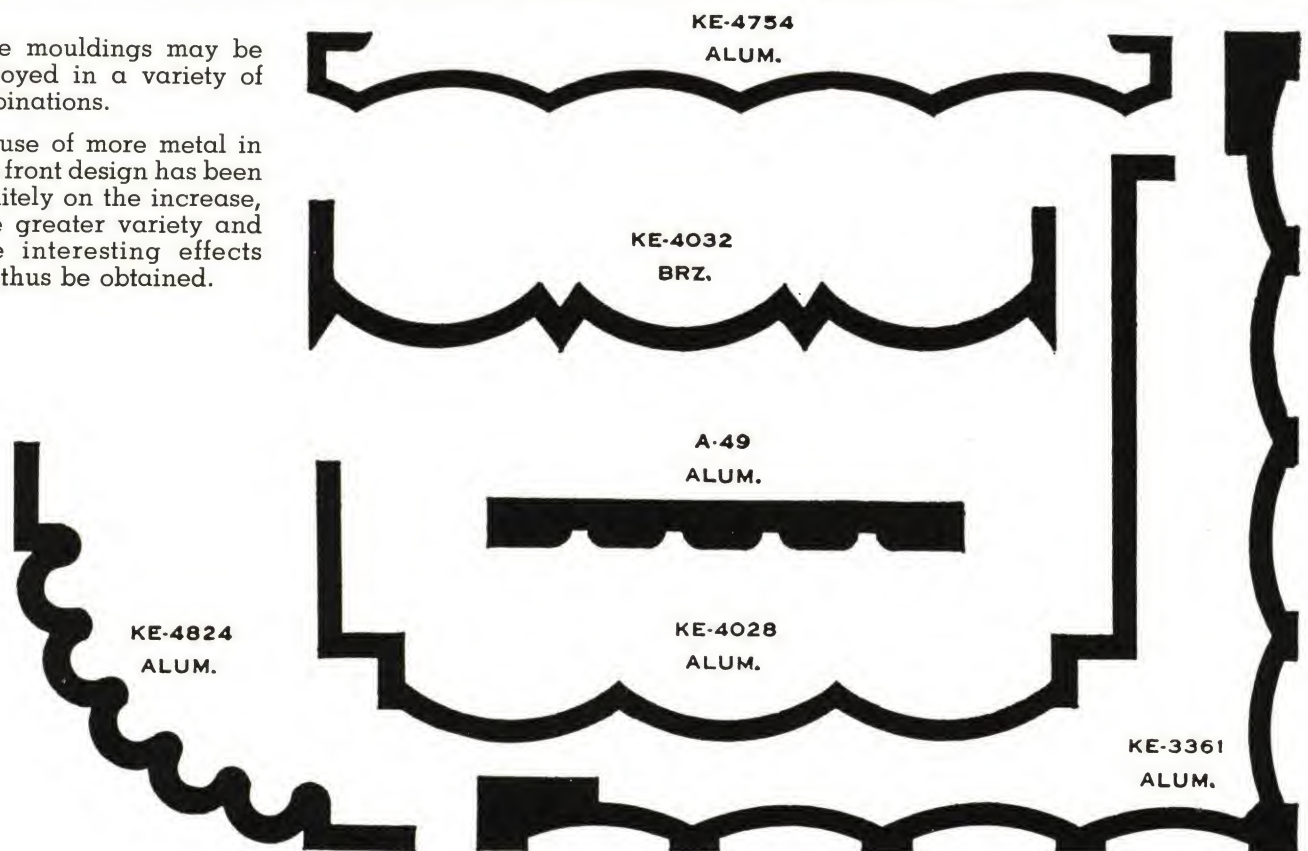
Mouldings for use on columns, niches, pilasters and bulkheads may be tied together with steel bands at the factory for specific installations.



EXTRUDED REED MOULDINGS

These mouldings may be employed in a variety of combinations.

The use of more metal in store front design has been definitely on the increase, since greater variety and more interesting effects may thus be obtained.



EXTRUDED PILASTER MOULDINGS

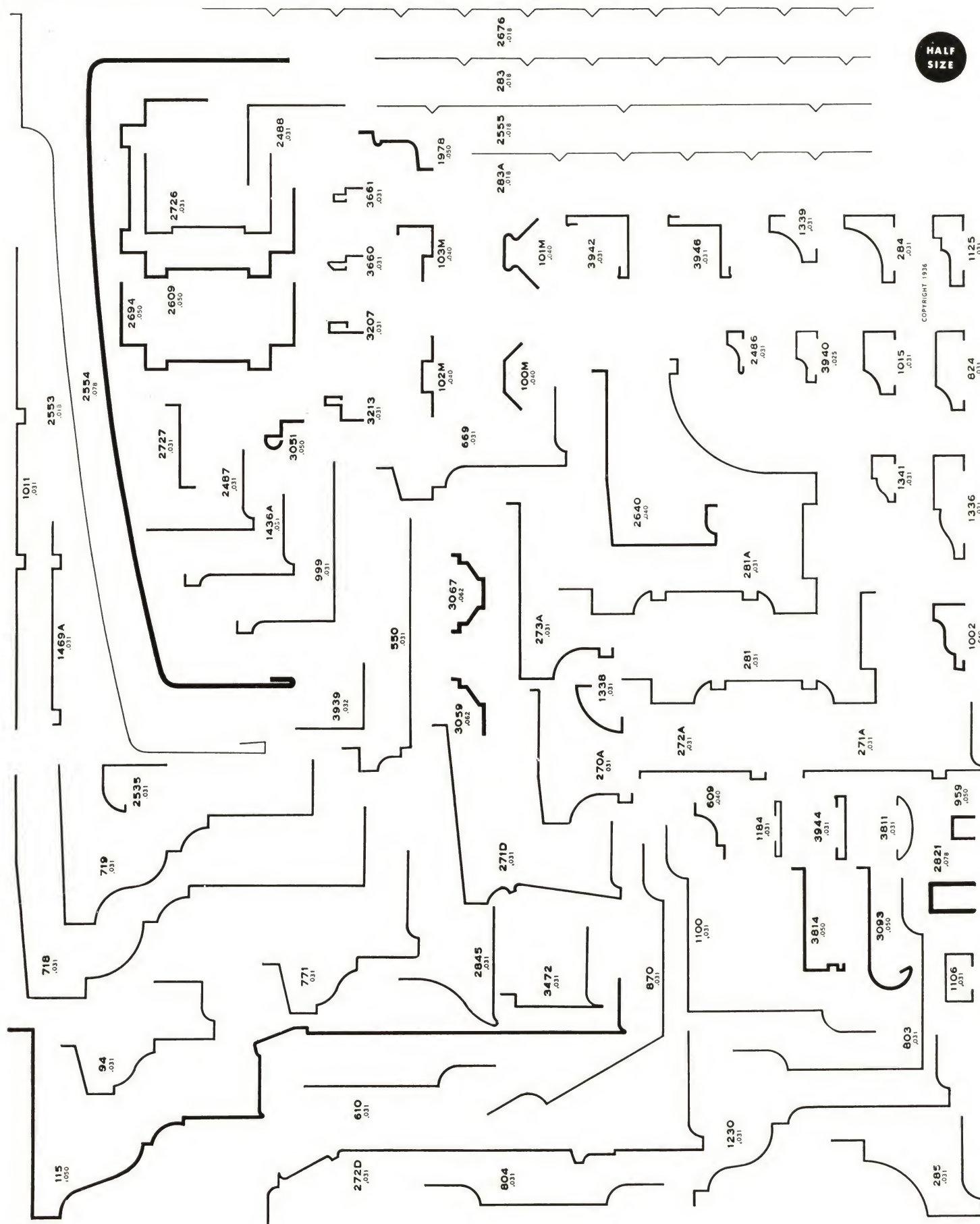
$$\frac{19}{7}$$

COLD ROLLED ALUMINUM

STOCK MOULDINGS

BRONZE, OR STAINLESS STEEL

**HALF
SIZE**



COPYRIGHT 1976

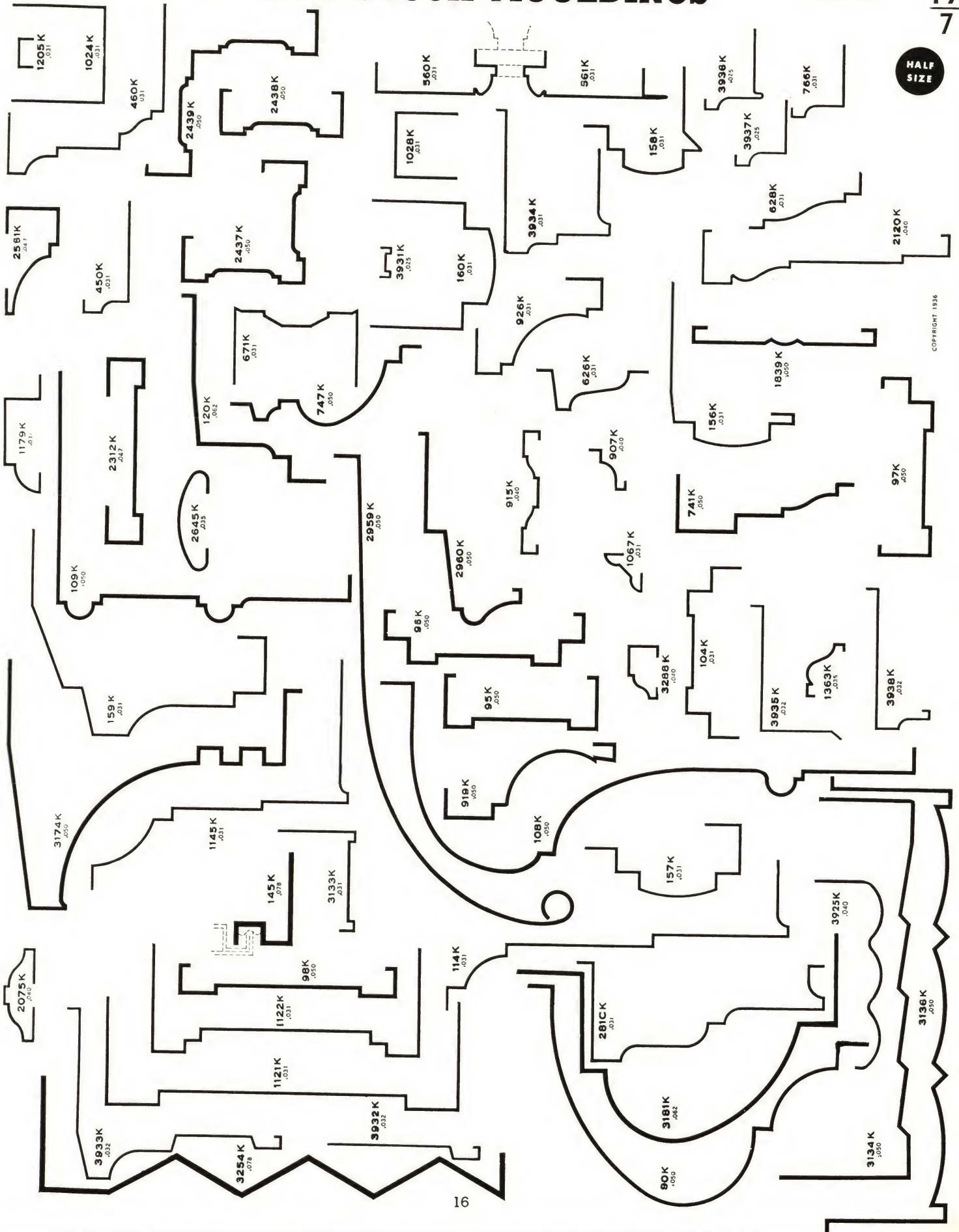
SPECIAL SET-UP

NON-STOCK MOULDINGS

REQUIRED

19
7

HALF
SIZE



COPYRIGHT 1936

19
7**ADDITIONAL ITEMS**

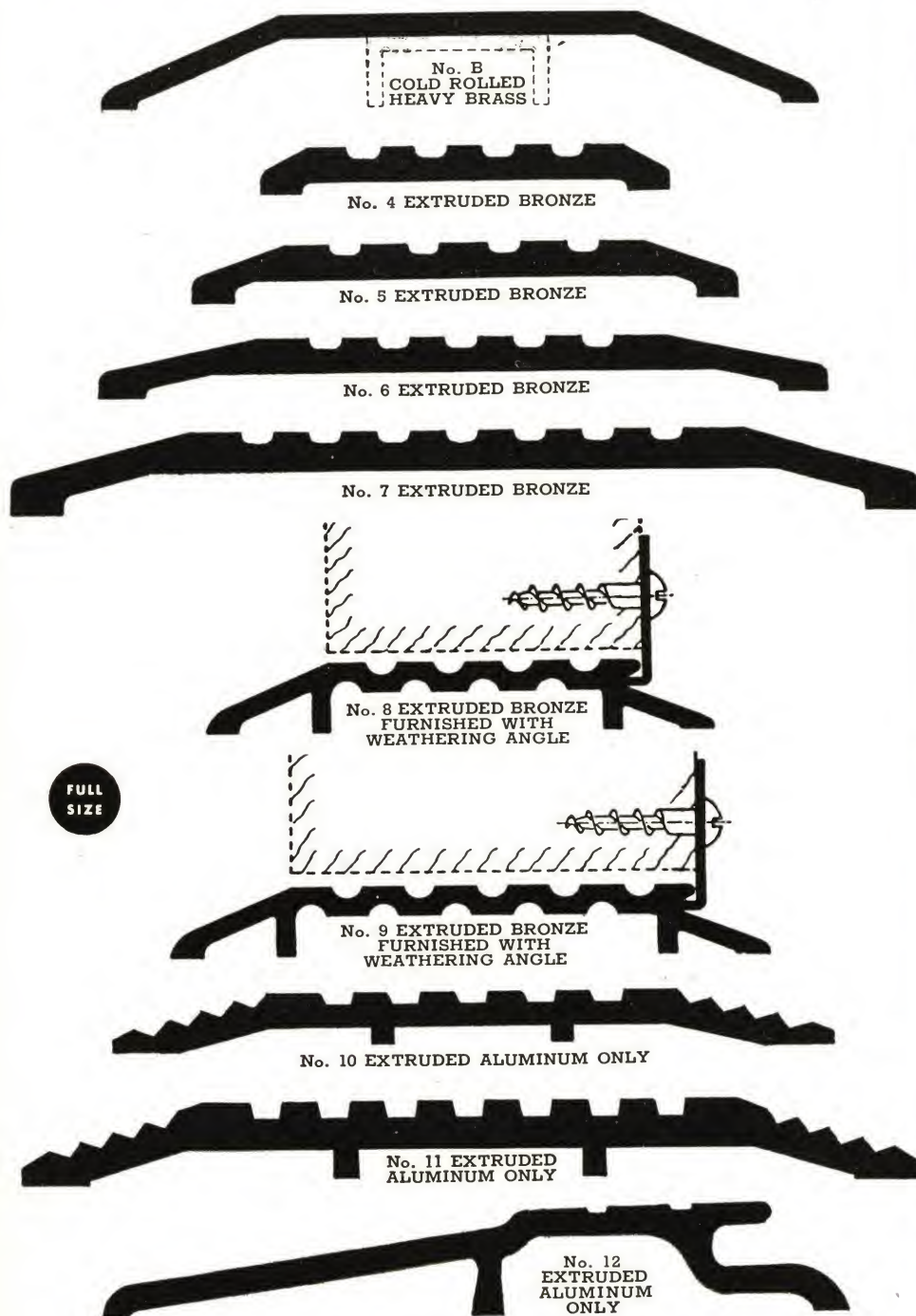
In addition to the mouldings, shapes and parts, detailed in this catalog, Kawneer furnishes rustless metal store front construction for every need. Write for data on items not covered.

KAWNEER METAL SHOWCASE DOORS are furnished with or without transom, equipped with necessary hardware and frame. Corners

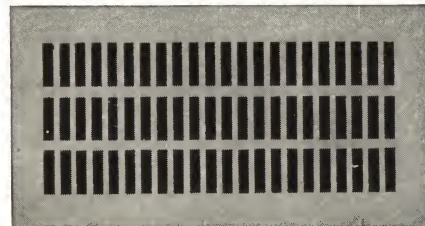
are mitered and strongly welded. Felt cushions keep out dust.

PIVOTED VENTILATORS come in several styles, with frames, for use in transoms, bulkheads, etc.

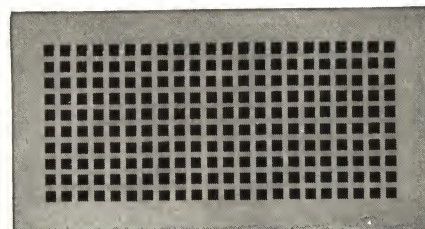
METAL PANELING, POSTER FRAMES, CAST ENRICHMENTS, AND MOULDINGS FOR USE WITH GLASS BLOCK are also available.

**THRESHOLDS**

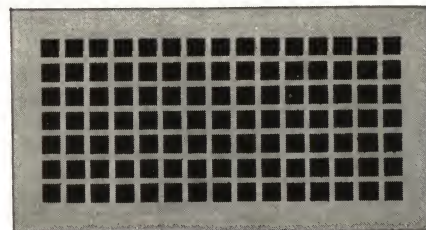
GRILLES are furnished in .050 and .109 gauge metal, sharply cut from bronze and aluminum. Also in stainless steel — .050 gauge only. Maximum size, 114" x 24".



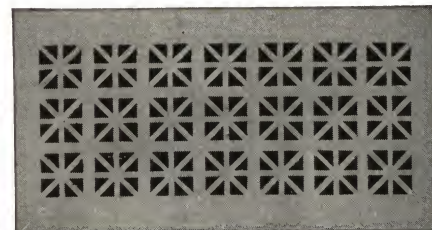
TYPE 1-G. Rectangular Interstices. Stock sizes: 11" x 5", 18" x 9", 24" x 10".



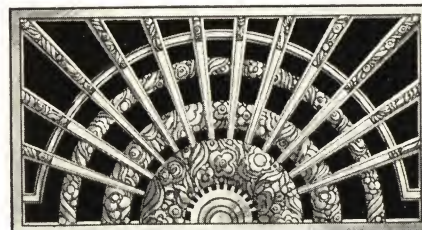
TYPE 2-G. Small Square Interstices. Stock sizes: 11" x 5", 18" x 9", 24" x 10".



TYPE 3-G. Large Square Interstices. Stock sizes: 11" x 5", 18" x 9", 24" x 10".



TYPE 5-G. Clustered Union Jack. Stock sizes: 11" x 5", 18" x 9", 24" x 10".



SPECIAL. Design Cut or Cast to Meet Architects' Requirements on time and material basis.

GRILLES

RUSTLESS METAL

Kawneer

STORE FRONTS

GROWING IMPORTANCE OF STORE FRONT METAL



● The increasing use of such fine rustless metals as aluminum with the durable aluminite finish, bronze, and stainless steel makes a vital contribution to the effectiveness of modern store fronts and buildings. Many interesting possibilities have been developed; many remain to be explored.

Kawneer is in step with this movement, is constantly improving and adding to its line of rolled and extruded metal construction, constantly widening its facilities for dependable service to designers.

Originally founded by a practicing architect, The Kawneer Company has had wide experience in the fabrication of rustless metals for all architectural purposes — understands thoroughly the problems of architect and builder. Thus Kawneer is a logical source for all types of architectural metal work.

Refer also to the Kawneer Catalog on Windows, Doors, and Architectural Metal Work; see the distributor; or write the factory for further data. Your inquiries will receive prompt attention.

MAIN PLANT

THE
Kawneer
COMPANY

NILES, MICHIGAN

BRANCHES: NEW YORK CITY, CHICAGO, BERKELEY, CALIF. • DISTRIBUTORS IN PRINCIPAL CITIES



Kawneer

STORE FRONTS

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